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## UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No. 2480 FURNACE HEARTH FOR IMPROVED MOLTEN IRON

PRODUCTION AND METHOD OF OPERATION

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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APPLICATION ELEMENTS		ADDR	ESS TO:	Box Pa	atent App	olication		nts P
See MPEP chapter 600 concerning utility patent applica	tion contents.			Washi	ngton, D	C 2023	1	
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submut an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27.			CD-ROM or C Computer Pro otide and/or An olicable, all nec	ogram ( <i>A</i> nino Acid	ppendix)	•		05613
(preferred arrangement set forth below)     Descriptive title of the invention	24 ]	a b. Sp	Computer R		•	•		1004
<ul> <li>Cross Reference to Related Applications</li> <li>Statement Regarding Fed sponsored R &amp;</li> <li>Reference to sequence listing, a table,</li> </ul>	D		i. CD-F	ROM or (	D-R (2 o	copies);	or	
or a computer program listing appendix - Background of the Invention		с	Statements	verifying				
<ul> <li>Brief Summary of the Invention</li> <li>Brief Description of the Drawings (if filed)</li> </ul>		AC	COMPANY	ING A	PPLIC/	ATION	I PARTS	<u> </u>
<ul><li>Detailed Description</li><li>Claim(s)</li></ul>		9.	Assignment			eet & de	ocument(s Power of	))
- Abstract of the Disclosure		10.	(when there		•		Attorney	
4. X Drawing(s) (35 U.S.C. 113) [ Total Sheets 5. Oath or Declaration [ Total Pages		11. XX	English Tran	Disclosu	re	v	Copies of Citations	IDS
V		13.	Statement (I Preliminary	•		_	Citations	
a. Newly executed (original or copy) Copy from a prior application (37 CFR (for continuation/divisional with Box 18)	1.63 (d)) completed)	14. X	Return Rec	eipt Post	card (MF	ed)		
i. DELETION OF INVENTOR(S Signed statement attached deleting inver		15.	Certified Co	py of Pri	ority Dod daimed)	ument(	s)	
named in the prior application, see 37 CF 1.63(d)(2) and 1 33(b).		16. XX	Nonpublicate (b)(2)(B)(i). or its equiva	Applican	uest unde t must at	er 35 U. tach foi	.S.C. 122 m PTO/SI	3/35
6. Application Data Sheet. See 37 CFR 1.76		17.	Other:					
18. If a CONTINUING APPLICATION, check appropriate	e box, and supply t	the requisi	te information	below ar	nd in a pi	elimina	ry amendr	nent,
or in an Application Data Sheet under 37 CFR 1.76:								
	uation-in-part (CIP)	•	prior application No.	·	J			-
Prior application information: Examiner  For CONTINUATION OR DIVISIONAL APPS only: The entire	dicclosure of the m		roup Art Unit:	h an oath	or decla	ration is	supplied:	ınder
Box 5b, is considered a part of the disclosure of the accome. The incorporation can only be relied upon when a portion l	npanting de minumit has <b>communaciy</b> e nom	divisi emitted	onal application from the submi	n and is h itted appl	ereby ind ication pa	orporat arts.	ed by refer	ence.
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Name Gregory N. Cla	ements							
DOUGHERTY & CI						*.**		
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City Charlotte	S	tate	NC		Zip C	ode	2821	0
Country USA	Teleph	none 7	04/366-6	642	Fax	× 70	04/366	<u> 974</u>
Name (Print/Type) Gregory N. C1	ements	Regist	ration No. (A	ttomey/	Agent)	30,	713	
Signature Lynn Will	invivita				Date	01/2	24/02	

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## **ORIGINAL**

PTO/SB/17 (11-01)
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HOFFMAN et al.
2480

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METHOD OF PAYMENT (check all that apply)					FEE CALCULATION (continued)					
☐ Check ☒ Credit card ☐ Money ☐ Other ☐ None				3. ADDITIONAL FEES						
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Deposit [			1	Fee	Fee	Fee	Fee	Fee Description	Fee Paid	
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The Commission	oner is autho	rized to: (check all th	at apply)	139	130	139	130	Non-English specification		
Charge fee(	s) indicated be	elow Credit a	ny overpayments		2,520		2,520	For filing a request for ex parte reexamination		
X Charge any	additional fee	(s) during the penden	cy of this application	112	920*	112		Requesting publication of SIR prior to		
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to the above ide				113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		
	FEE C	ALCULATION		115	110	215	55	Extension for reply within first month		
1. BASIC FI	LING FEE			116	400	216	200	Extension for reply within second month		
Large Entity	Small Entity Fee Fee	Fee Description		117	920	217	460	Extension for reply within third month		
Code (\$)	Code (\$)	COCOCOCIONAL	Fee Paid	8	1,440	218	720	Extension for reply within fourth month		
101 740	201 370	Utility filing fee	740		1,960	1	980			
106 330	206 165	Design filing fee						Extension for reply within fifth month		
107 510	207 255	Plant filing fee		119	320	219	160	Notice of Appeal		
108 740	208 370	Reissue filing fee		120	320	220	160	Filing a brief in support of an appeal		
114 160	214 80	Provisional filing fe	e	121	280		140	Request for oral hearing		
		SUBTOTAL (1)	\$) 740	į .	1,510	Ī	1,510 55	Petition to institute a public use proceeding  Petition to revive - unavoidable		
2 EVIDA (	N AME EEE	S FOR UTILITY	<u> </u>	140	110	240		Petition to revive - unintentional		
Z. EXTRA C	LAIM FEE	F€	e from _	ŀ	1,280	241	640	Utility issue fee (or reissue)		
Tatal Olaima	32 -20	Extra Claims by $12 \times 12$		142	1,280 460	243	230	Design issue fee		
Total Claims Independent	4 -3		240404	144	620	244	310	Plant issue fee		
Claims Multiple Deper	ٔ لنبا		= 0 - 0	122	130	122		Petitions to the Commissioner		
majupio Dopoi				123	50	123	50	Processing fee under 37 CFR 1.17(q)		
Large Entity	Small Entit	v		126	180	126	180	Submission of Information Disclosure Stmt		
Fee Fee	Fee Fee	Fee Description	n,	1						
Code (\$) 103 18	Code (\$) 203 9	Claims in excess	of 20	581	40	581	40	Recording each patent assignment per property (times number of properties)		
102 84	202 42	Independent clain	is in excess of 3	146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))		
104 280	204 140		nt claim, if not paid	149	740	249	370	For each additional invention to be		
109 84	209 42	** Reissue indepo over original pa		""			-· <b>-</b>	examined (37 CFR § 1.129(b))		
110 18	210 9	** Reissue claims		179	740	279	370	Request for Continued Examination (RCE)	<b> </b>	
	•	and over origin	al patent	169	900	169	900	Request for expedited examination		
	<b></b>	DTOTAL (2)	(\$) 300.00	Othe	r fee (s	pecifi	y)	of a design application		
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SUBMITTED BY				Complete (#	f applicable)
Name (Print/Type)	Gregory N. Clements	Registration No. (Attorney/Agent)	30,713	Telephone	704/366-6642
Signature	Jugay Wlements			Date	January 24,2002

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## NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First N	amed Inventor	HOFFMAN et al.
Title		EARTH FOR IMPROVED MOLTEN UCTION AND METHOD OF OPERATION
Atty Docket Number		2480

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

January 24, 2002

Date

Signature

Gregory N. Clements
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).** 

Burden Hour Statement: This collection of information is required by 37 CFR 1 213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.